



AVOX Systems

Formerly Scott Aviation, Inc.

SERVICE INFORMATION LETTER

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OXYGEN - ATA CHAPTER 35

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P/N 803662 AND 803663 SERIES – CONTINUOUS FLOW CONTROL REGULATOR ASSEMBLY

AVOX SYSTEMS RECOMMENDS FOR AN OVERHAUL:

- OVERHAUL PERIOD,
- MINIMUM NECESSARY PARTS TO REPLACE,
- KITS OF MINIMUM NECESSARY PARTS TO REPLACE, AND
- NECESSARY FUNCTIONAL TESTS AFTER AN OVERHAUL

1. BACKGROUND

This SIL recommends the overhaul period for the 803662 and 803663 Series Continuous Flow Control Regulator Assemblies. This SIL identifies the minimum parts to replace during an overhaul. This SIL includes facts about kits that contain all of the minimum necessary parts to be replaced in an overhaul. This SIL gives information about functional testing required after an overhaul. This SIL does not change any procedures in the Component Maintenance Manual (CMM) except as noted.

You are given authority to make copies of this SIL and give them to other persons. If you make a copy of this SIL, you must make a copy of all of the SIL.

2. EFFECTIVITY

A. Aircraft

Any aircraft that uses the AVOX Systems or Scott Aviation 803662 or 803663 Series Continuous Flow Control Regulator Assy.

B. Continuous Flow Control Regulator Assembly.

Any AVOX Systems or Scott Aviation 803662 or 803663 Series Continuous Flow Control Regulator Assembly listed in Table 1.

C. Flow Control Regulators

(1) Flow Control Regulator part numbers that are affected by this SIL are listed in Table 1.

TABLE 1
AFFECTED FLOW CONTROL REGULATOR PART NUMBERS

803662-01	803662-02	803662-04	803662-05
803662-13	803663-01	803663-04	

D. Component Maintenance Manual (CMM)

AVOX Overhaul Manual 35-21-85 (current revision 2 dated August 30, 1994) is necessary to do an overhaul. After the (CMM) is revised to incorporate this SIL, this SIL will not be applicable to the (CMM). See Section 7 of this SIL on how to contact AVOX Systems for revision status of technical publications.



3. AVOX SYSTEMS RECOMMENDS FOR AN OVERHAUL:

A. Overhaul Period

- (1) Do an overhaul every five years for the 803662 or 803663 Series Continuous Flow Control Regulator Assembly or more frequently.

B. Minimum Necessary Parts to Replace for an Overhaul

- (1) Overhaul Kit P/N 26968-01 contains the minimum necessary parts to replace for an overhaul of the 803662 or 803663 Series Continuous Flow Control Regulator Assembly. You must replace other parts if they are defective.

NOTE: When overhauling any of the 802662 or 802663 Series Flow Control Regulators, only 1 Preformed Packing (Overhaul Kit Item Number 19, P/N 57173-00 [2-5COMP-S753-70]) will be needed.

C. Functional Tests that are Necessary After an Overhaul

You must do all the functional tests in the (CMM) after you do an overhaul on the 803662 or 803663 Series Continuous Flow Control Regulator Assembly. You must follow all applicable procedures in the (CMM) when you do an overhaul. This SIL does not change the test procedures in the (CMM).

4. ACCOMPLISHMENT INSTRUCTIONS

An overhaul must be done by personnel knowledgeable in the repair of high-pressure aviation oxygen equipment. An overhaul must be done in a facility that is approved for the repair of high-pressure aviation oxygen equipment. Contact AVOX Systems for locations of repair facilities authorized to repair AVOX oxygen equipment. See Section 7 of this SIL for contact instructions.

You must use all the necessary special tools and test equipment recommended in the (CMM). Equivalent special tools and test equipment may be substituted. All tools and test equipment used to repair high-pressure aviation oxygen equipment must be calibrated. You must do the calibrations how and when your applicable national standards organization recommends. You must use tools that are clean for oxygen use.

- A. Use the (CMM) and this SIL to do an overhaul of the Continuous Flow Control Regulator Assembly.
- B. Write in your aircraft logs that an overhaul was done on the Continuous Flow Control Regulator Assembly.

TABLE 2
PARTS CONTAINED IN OVERHAUL KIT P/N 26968-01
FOR THE 803662 AND 803663 SERIES CONTINUOUS FLOW CONTROL REGULATOR ASSEMBLY
(Refer to Notes 1 through 5)

KIT ITEM NUMBER	PART NUMBER	IPL ITEM NUMBER	NOMENCLATURE	QUANTITY PER KIT
1	10001623	635	SEAT, VALVE	1
2	10001635	260	GASKET	1
3	18002-00	410	PACKING, PREFORMED (MS9068-012)	1
4	18008-00	370	PACKING, PREFORMED (MS9068-020)	1
5	18057-00	725	PACKING, PREFORMED (MS9068-028)	1
6	18062-00	585	PACKING, PREFORMED (MS9068-021) (SEE NOTE 4.)	1



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TABLE 2 (Continued)
PARTS CONTAINED IN OVERHAUL KIT P/N 26968-01

KIT ITEM NUMBER	PART NUMBER	ITEM NUMBER	NOMENCLATURE	QUANTITY PER KIT
7	19486-00	235, 510	PACKING, PREFORMED	2
8	19487-00	500, 540	(PACKING, PREFORMED (MS9068-908) (SEE NOTE 3.))	2
9	19488-00	420	PACKING, PREFORMED (MS9068-008	1
10	24509-00	140	GASKET - COVER, CONT. FLOW CONTROL	1
11	25397-00	50	GASKET - VALVE LIFTER FLOW CONTROL	1
12	25530-02	670	ASSEMBLY, ORIFICE AND DIAPHRAGM	1
13	25736-00	300	WASHER SEAL, ACTUATION LEVER	1
14	33349-009	335, 550	SET SCREW	2
15	33460-071	210	WASHER, LOCK (MS35333-71)	2
16	33460-070	135, 295, 365, 440	WASHER, LOCK (MS35333-70) (SEE NOTE 5.)	22
17	55619-00	645	PACKING, PREFORMED (3-5COMP77-545)	1
18	55620-00	740	PACKING, PREFORMED (2-15COMP77-545)	1
19	57173-00	90	PACKING, PREFORMED (2-5COMP-S753-70) (SEE NOTE 2.)	2
20	58526-00	320	NUT, HEX MINIATURE	2
21	59317-00	605	BELLOFRAM - PRESSURE REDUCER	1
22	59333-00	655	PACKING, PREFORMED (2-29COMP-S604-7)	1
23	59334-00	730	BELLOFRAM - FLOW CONTROL	1
24	59776-00	520	BOSS SEAL (VD261-0109-0105)	1
25	800854-00	765	ASSEMBLY, SEAT AND GUIDE	1
26	803808-01	400	ASSEMBLY, MOLDED VALVE SEAT)	1
27	8820-03	775	SCREEN, FILTER	1

Note 1: The overhaul kit contains the minimum necessary parts to replace in an overhaul of one 803662 or 803663 Series Continuous Flow Control Regulator Assembly. Not all parts provided in the overhaul kit are required for the overhaul of some regulator assemblies. See Note 2. See Section 7 of this SIL for instructions to buy an overhaul kit.

Note 2: Only 1 Preformed Packing (19, IPL Figure 1), P/N 57173-00 [2-5COMP-S753-60]) is required when overhauling an 803662 or 803663 Series Flow Control Regulator. When overhauling an 803662 or 803663 Series Flow Control Regulator, discard any unused Preformed Packings.

Note 3: Item Number 500, IPL Figure 1 was incorrectly listed as P/N MS9068-908 in Figure 1 of CMM 35-21-85. Item Number 585 should have been listed as P/N MS9068-908.

Note 4: Item Number 585, IPL Figure 1 was incorrectly listed as P/N MS9068-021 in Figure 1 of CMM 35-21-85. Item Number 585 should have been listed as P/N MS9068-021.

Note 5: After publication of CMM 35-21-85, Item 80, IPL Figure 1, P/N 33460-070 [MS35333-70]) was deleted from the design. As a result, no replacement for this part is necessary.



5. DISASSEMBLY (Refer to IPL Figure 1 for item numbers in parentheses.)

NOTE: If removed during disassembly, discard and replace the following parts: Pressure Reducer Seat Valve (635), Gasket (260), Preformed Packing (410, 370, 725, 585, 235, 510, 500, 540, 420), Gasket Cover (140), Valve Lifter Flow Control Gasket (50), Orifice Assembly (670), Actuation Lever Seal Washer (300), Set Screw (335, 550), Lock Washer (135, 295, 365, 440), Preformed Packing (645, 740, 90), Hex Nut (320), Pressure Reducer Bellofram (605), Preformed Packing (655), Flow Control Bellofram (730), Boss Seal (520), Seat and Guide Assembly (765), Seat (400), Filter Screen (775).

A. The following supersedes Paragraph 5 of Overhaul Manual 35-21-85, (Page 301).

(1) Unthread and remove button (75). If present, remove and discard washer (80). Then remove spring (85) and plunger (95). Remove packing (90) from plunger (95).

B. The following supersedes Paragraph 31 of (CMM) 35-21-85, (Page 305).

(1) Unthread and remove plug (505); then remove packing (510) from end of plug (505). Do not remove filter (525) from body assembly (810). Remove union (575), seal (520) and filter (775) from body assembly (810).

6. ASSEMBLY (Refer to IPL Figure 1 for item numbers in parentheses.)

A. The following supersedes Paragraph 2.C of Overhaul Manual 35-21-85, (Page 702).

NOTE: If washer (80) has been removed earlier, do not replace the washer onto end of plunger (95).

(1) Place plunger (95) with packing (90) installed through cover subassembly (125). Place spring (85) in place and thread button (75) onto plunger (95) after applying a coat of Loctite, Grade C, to threads of plunger (95).

B. The following supersedes Paragraph 8 of (CMM) 35-21-85, (Page 704).

(1) Install filter (775) and screen (780) into body assembly (810).

7. TO CONTACT AVOX SYSTEMS:

A. To get an overhaul of a 803662 or 803663 Series Continuous Flow Control Regulator Assembly or to have it repaired, contact any AVOX Authorized Repair and Overhaul Facility. Refer to the AVOX web site (www.avoxsys.com) for a list of authorized facilities.

B. To buy kits or parts, contact any AVOX Authorized Distributor. Refer to the AVOX web site (www.avoxsys.com) for a list of distributors.

C. To get technical aid, contact the AVOX Technical Support Department.

- Telephone: 1-716-683-5100
- Fax: 1-716-681-1089
- E-Mail: avoxcs@avox.zodiac.com



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7. TO CONTACT AVOX SYSTEMS (Continued)

D. To get a copy of the (CMM) or the revision status of a publication, contact the AVOX Technical Publications Department. Give the aircraft model when you send an order for a (CMM) copy.

- Telephone: 1-716-683-5100
- Fax: 1-716-681-1089
- E-Mail: avoxtechpub@avox.zodiac.com
- Publications Index: log onto www.avoxsys.com; click on Aviation/Government Products, click on Aviation Product Information, click on Technical Product Information

Note: The steps to get the Publications Index from the AVOX Systems web site can and will change in the future because of changes to the web site.